Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) <u>A bacterium Bacterium Tropheryma whippelii</u> responsible for Whipple's disease, isolated and established in culture, wherein the bacterium is <u>Tropheryma whippelii</u>.
- 2. (Currently Amended) <u>A bacterium Bacterium</u> according to claim 1, obtained from a culture of human fibroblasts after at least 2 months of incubation in a culture medium based on MEM.
- 3. (Currently Amended) <u>A bacterium Bacterium</u> according to claim 1, wherein said bacterium is deposited in the CNCM of the Institut Pasteur under <u>Deposit No.the number</u> I-2202.
- 4. (Currently Amended) An antigenAntigen of athe bacterium according to claim

 1.
- 5. (Currently Amended) An antigen Antigen according to claim 4, wherein said antigen is a protein selected from those with a molecular weights weight of about 35, 50, 60, 100 and or 200 kD determined in Figures 2 and 3 by polyacrylamide gel electrophoresis using the Western blotting technique.
- 6. (Withdrawn-Currently Amended) <u>An antibody Specific antibody</u> directed against <u>athe</u> bacterium *Tropheryma whippelii* responsible for Whipple's disease or an antigen of said bacterium.
- 7. (Withdrawn-Currently Amended) <u>An antibody Antibody</u> according to claim 6, wherein it is a polyclonal antibody of animal origin, preferably a mouse immunoglobulin.
- 8. (Withdrawn-Currently Amended) <u>An antibody Antibody</u> according to claim 6, wherein it is a monoclonal antibody.

- 9. (Withdrawn-Currently Amended) <u>An antibody Antibody</u> according to claim 8, wherein it is a monoclonal antibody produced by a hybridoma deposited in the CNCM of the Institut Pasteur under the <u>registration number Deposit No.</u> I-2411.
- 10. (Currently Amended) An antigen Antigen according to claim 5, wherein said antigen is a protein of 200 kD, which reacts with a specific monoclonal antibody directed against athe bacterium *Tropheryma whippelii* responsible for Whipple's disease or an antigen of said bacterium, said antibody being produced by a hybridoma deposited in the CNCM of the Institut Pasteur under the registration number. Deposit No. I-2411.
- 11. (Currently Amended) A method Method for the *in vitro* diagnosis of diseases associated with infections caused by the bacterium Tropheryma whippelii, comprising contacting bringing serum or any other biological fluid of a patient into contact with the bacterium of claim 1, and detecting an immunological reaction.
- 12. (Withdrawn-Currently Amended) A method Method for the in vitro diagnosis of the disease diseases associated with infections caused by Tropheryma whippelii-bacteria, comprising contacting bringing serum or any other biological fluid of a patient into contact with the antibody of claim 6, and detecting an immunological reaction.
- 13. (Withdrawn-Currently Amended) <u>A method Method</u> for the *in vitro* serological diagnosis of Whipple's disease, comprising the steps which consist essentially of detecting an immunological reaction between an antibody according to claim 6 and an antigen of <u>athe</u> bacterium *Tropheryma whippelii* responsible for Whipple's disease.
- 14. (Withdrawn-Currently Amended) A method Method for the *in vitro* serological diagnosis of Whipple's disease, comprising the step which consists essentially of detecting an immunological reaction between a human immunoglobulin, which recognizes the bacterium *Tropheryma whippelii* responsible for Whipple's disease and an antibody specific for said human immunoglobulin.

- 15. (Withdrawn-Currently Amended) A method for the *in vitro* Method of serological diagnosis according to claim 14, comprising the following steps:
 - depositing a solution containing athe bacterium *Tropheryma whippelii* responsible for Whipple's <u>diseasedisease</u>, in or on a solid support;
 - introducing the test-serum or any other biological fluid into or onto said support;
 - introducing a solution of a labeled antibody specific for a human immunoglobulin, which recognizes said bacterium, into or onto the support;
 - observing an incubation period;
 - rinsing the solid support; and
 - detecting saidan immunological reaction.
- 16. (Withdrawn-Currently Amended) A kitKit for the *in vitro* serological diagnosisdetection of Whipple's disease by the method of claim 13, essentially comprising the following components:
 - a solution containing athe bacterium *Tropheryma whippelii* responsible for Whipple's disease or an antigen of said bacterium; and/or
 - a solution containing at least one specific antibody directed against athe bacterium *Tropheryma whippelii* responsible for Whipple's disease or against an antigen of said bacterium; and/or
 - a solution containing at least one antibody specific for a human immunoglobulin, which recognizes athe bacterium *Tropheryma whippelii* responsible for Whipple's disease.
- 17. (Withdrawn-Currently Amended) A kitKit according to claim 16, comprising characterized in that it comprises at least one labeled specific antibody.

- 18. (Withdrawn-Currently Amended) A fragment Fragment of the *rpoB* gene of the bacterium *Tropheryma whippelii* according to claim 1, wherein said fragment comprises the nucleotide sequence set forth in SEQ ID NO:3.
- 19. (Withdrawn-Currently Amended) An oligonucleotide Oligonucleotide comprising a sequence specific for the *rpoB* gene of the bacterium *Tropheryma whippelii* according to claim 1, wherein said specific sequence comprises comprising at least 12 consecutive nucleotide units nucleotides included in of the sequence set forth in SEQ ID NO:3.
- 20. (Withdrawn-Currently Amended) A single-stranded Single-stranded oligonucleotide according to claim 19, wherein the oligonucleotide has selected from oligonucleotides having a sequence of at least 12 consecutive nucleotide units nucleotides of included in one of the sequences of SEQ ID NOs: 4 and 5SEQ ID NO:4 or 5, and or from the oligonucleotides complementary to these oligonucleotides thereto.
- 21. (Withdrawn-Currently Amended) <u>An oligonucleotide</u>Oligonucleotide according to claim 19, wherein it consists consisting of the sequences sequence set forth in SEQ ID NOs: 4 and 5NO:4 or 5.
- 22. (Withdrawn-Currently Amended) A probe Probe for detecting Tropheryma whippelii bacteria-in a biological sample, wherein said probe comprises a sequence according to claim 18.
- 23. (Withdrawn-Currently Amended) A processProcess for determining the presence or absence of a-Tropheryma whippelii bacterium in a sample, which contains or may contain nucleic acidacids of at least one of such bacteriabacterium, comprising contactingwherein said sample is brought into contact with at least one probe according to claim 22, and determining the formation or absence of formation of a hybridization complex between said probe and the nucleic acid of the sample is then determined.

- 24. (Withdrawn-Currently Amended) A nucleotide Nucleotide primer, which can be used for synthesizing the *rpoB* gene of *Tropheryma whippelii* in the presence of a polymerase, wherein said primer comprises an oligonucleotide according to claim 19.
- 25. (Withdrawn-Currently Amended) <u>A method Method</u> for the *in vitro* diagnosis of the disease associated with infections caused by *Tropheryma whippelii*-bacteria, comprising contacting bringing serum or any other biological fluid of a patient into contact with the antigen of claim 4, and detecting an immunological reaction.
- 26. (Withdrawn-Currently Amended) A kitKit for the *in vitro* serological diagnosisdetection of Whipple's disease by the method of claim 14, essentially comprising the following components:
 - a solution containing athe bacterium *Tropheryma whippelii* responsible for Whipple's disease or an antigen of said bacteria; and/or
 - a solution containing at least one specific antibody directed against athe bacterium *Tropheryma whippelii* responsible for Whipple's disease or against an antigen of said bacteria; and/or
 - a solution containing at least one antibody specific for a human immunoglobulin, wherein said human immunoglobulin recognizes athe bacterium *Tropheryma whippelii* responsible for Whipple's disease.
- 27. (Withdrawn-Currently Amended) A probe Probe for detecting *Tropheryma* whippelii bacteria in a biological sample, wherein said probe comprises an oligonucleotide according to claim 19.
- 28. (Withdrawn-Currently Amended) A processProcess for determining the presence or absence of a-Tropheryma whippelii-bacterium in a sample, which contains or may contain nucleic acidsacid of at least one of such bacteriabacterium, comprising contactingwherein said sample is brought into contact with at least one probe according to

claim 27, and <u>determining</u> the formation or absence of formation of a hybridization complex between said probe and the nucleic acid of the sample is then <u>determined</u>.